

Abstract of the Disclosure

Products prepared from polycarboxylic anhydrides and active hydrogen-functionalized elastomeric polymers, in particular polyoxyalkyleneamines, are suitable as builder components (prepolymers) for epoxy resin compositions. The reaction products are distinguished by having a plurality of carboxyl groups, but no imide groups, in each molecule. The reaction products may optionally be further reacted with epoxy resins and may optionally be formulated together with polymers having at least one glass transition temperature of -30°C or lower and epoxy-reactive groups and/or reaction products of said polymers with epoxy resins to provide resin systems useful in adhesives. Such adhesive formulations may additionally contain liquid and/or solid epoxy resins and/or hardeners and/or accelerators and/or fillers and/or and/or other impact-modifying components and/or rheology auxiliaries. Such compositions exhibit excellent shelf life and are particularly suitable as impact-resistant and peel-resistant adhesives in vehicle construction and in electronics. Particularly at very low temperatures, these adhesives exhibit very good impact and peel properties combined with very good corrosion resistance and aging resistance of the adhesive bond.